



Seq.ST25.txt  
SEQUENCE LISTING

<110> Samson, Michael  
Parmentier, Marc  
Vassart, Gilbert  
Frederic, Libert

<120> Screening Methods for Identifying Compounds which Decrease HIV Entry into a Cell

<130> 9409/2023F

<140> 10/661,798

<141> 2003-09-12

<150> 09/938,703

<151> 2001-08-24

<150> 09/626,939

<151> 2000-07-27

<150> 08/833,752

<151> 1997-04-09

<150> 08/810,028

<151> 1997-03-03

<150> EP 96870021.1

<151> 1996-03-01

<150> EP 96870102.9

<151> 1996-08-06

<160> 18

<170> PatentIn version 3.1

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| tatgtaggca attaaaaacc tattgatgta taaaacagtt tgcattcatg gagggcaact | 180 |
| aaatacatc taggacttta taaaagatca ctttttattt atgcacaggg tggacaaga   | 240 |
| tggattatca agtgtcaagt ccaatctatg acatcaatta ttatacatcg gagccctgcc | 300 |
| aaaaaatcaa tgtgaagcaa atcgagccc gcctcctgcc tccgctctac tactggtgt   | 360 |
| tcattcttgg ttttgtgggc aacatgctgg tcattctcat cctgataaac tgcaaaaggc | 420 |
| tgaagagcat gactgacatc tacctgctca acctggccat ctctgacctg ttttccctc  | 480 |
| ttactgtccc cttctgggct cactatgctg ccgcccagtg ggactttgga aatacaatgt | 540 |
| gtcaactctt gacagggctc tattttatag gcttcttctc tggaatcttc ttcacatcc  | 600 |

## Seq.ST25.txt

|  |     |
|--|-----|
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| cggtcacctt tgggggtggtg acaagtgtga tcacttggtt ggtggctgtg tttgcgtctc | 720 |
| ttccaggaat catctttacc agatctcaaa aagaaggtct tcattacacc tgcagctctc  | 780 |
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| tatgtaggca attaaaaacc tattgatgta taaaacagtt tgcattcatg gagggcaact  | 180  |
| aaatacattc taggacttta taaaagatca ctttttattt atgcacaggg tggacaaga   | 240  |
| tggattatca agtgtcaagt ccaatctatg acatcaatta ttatacatcg gagccctgcc  | 300  |
| aaaaaatcaa tgtgaagcaa atcgcagccc gcctcctgcc tccgctctac tcactggtgt  | 360  |
| tcattcttgg ttttgtgggc aacatgctgg tcattcctcat cctgataaac tgcaaaaggc | 420  |
| tgaagagcat gactgacatc tacctgctca acctggccat ctctgacctg tttttccttc  | 480  |
| ttactgtccc ctcttgggct cactatgctg ccgcccagtg ggactttgga aatacaatgt  | 540  |
| gtcaactctt gacagggctc tattttatag gcttcttctc tggaaatctt ttcattcatc  | 600  |
| tcctgacaat cgataggtac ctggctgtcg tccatgctgt gtttgcttta aaagccagga  | 660  |
| cggtcacctt tgggggtggtg acaagtgtga tcacttggtt ggtggctgtg tttgcgtctc | 720  |
| ttccaggaat catctttacc agatctcaaa aagaaggtct tcattacacc tgcagctctc  | 780  |
| attttccata cagtcatgat caattctgga agaatttcca gacattaaag atagtcattc  | 840  |
| tggggctggt cctgccgctg cttgtcatgg tcattctgcta ctcggaatc ctaaaaactc  | 900  |
| tgcttcggtg tcgaaatgag aagaagaggc acagggtgtg gaggtttatc ttcaccatca  | 960  |
| tgattgttta ttttctcttc tgggctccct acaacattgt ctttctcctg aacaccttcc  | 1020 |
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## Seq.ST25.txt

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| gggagaagtt | cagaaactac | ctcttagtct | tcttccaaaa | gcacattgcc | aaacgcttct | 1200 |
| gcaaatgctg | ttctattttc | cagcaagagg | ctcccagagc | agcaagctca | gtttacaccc | 1260 |
| gatccactgg | ggagcaggaa | atatctgtgg | gcttgtgaca | cggactcaag | tgggctgggt | 1320 |
| accagtcag  | agttgtgcac | atggcttagt | tttcatacac | agcctgggct | gggggtnggt | 1380 |
| tggnngaggt | cttttttaaa | aggaagttac | tgttatagag | ggtctaagat | tcatccattt | 1440 |
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| tcccttcact | acaaaacttc  | attgcttggc  | caaaaagaga  | gttaattcaa | tgtagacatc | 120  |
| tatgtaggca | attaataacc  | tattgatgta  | taaaacagtt  | tgcattcatg | gagggcaact | 180  |
| aaatacattc | taggacttta  | taaaagatca  | ctttttatct  | atgcacaggg | tggaacaaga | 240  |
| tggattatca | agtgtcaagt  | ccaatctatg  | acatcaatta  | ttatacatcg | gagccctgcc | 300  |
| aaaaaatcaa | tgtgaagcaa  | atcgagccc   | gcctcctgcc  | tccgctctac | tactgggtgt | 360  |
| tcatctttgg | ttttgtgggc  | aacatgctgg  | tcatcctcat  | cctgataaac | tgcaaaaggc | 420  |
| tgaagagcat | gactgacatc  | tacctgtc    | acctggccat  | ctctgacctg | tttttccttc | 480  |
| ttactgtccc | cttctgggct  | cactatgctg  | ccgcccagtg  | ggactttgga | aatacaatgt | 540  |
| gtcaactctt | gacagggctc  | tattttatag  | gcttcttctc  | tggaatcttc | ttcatcatcc | 600  |
| tcctgacaat | cgataggtac  | ctggctgtcg  | tccatgctgt  | gtttgcttta | aaagccagga | 660  |
| cggtcacctt | tgggggtggtg | acaagtgtga  | tcacttgggt  | ggtggctgtg | tttgctctc  | 720  |
| tcccaggaat | catctttacc  | agatctcaaa  | aagaagggtct | tcattacacc | tgagctctc  | 780  |
| attttccata | cattaaagat  | agtcactctg  | gggctgggtcc | tgccgctgct | tgtcatggtc | 840  |
| atctgctact | cgggaatcct  | aaaaactctg  | cttcggtgtc  | gaaatgagaa | gaagaggcac | 900  |
| agggtgtga  | ggcttatctt  | caccatcatg  | attgtttatt  | ttctcttctg | ggctccctac | 960  |
| aacattgtcc | ttctcctgaa  | caccttccag  | gaattctttg  | gcctgaataa | ttgcagtagc | 1020 |
| tctaacaggt | tggaccaagc  | tatgcagggtg | acagagactc  | ttgggatgac | gcactgctgc | 1080 |
| atcaacccca | tcatctatgc  | ctttgtcggg  | gagaagttca  | gaaactacct | cttagtcttc | 1140 |
| ttccaaaagc | acattgccaa  | acgcttctgc  | aaatgctgtt  | ctattttcca | gcaagaggct | 1200 |
| cccgagcgag | caagctcagt  | ttacacccga  | tccactgggg  | agcaggaaat | atctgtgggc | 1260 |

## Seq.ST25.txt

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tcatacacag cctgggctgg ggggtggttg gaggtctttt ttaaaaggaa gttactgtta 1380  
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35 40 45

Met Leu Val Ile Leu Ile Leu Ile Asn Cys Lys Arg Leu Lys Ser Met  
50 55 60

Thr Asp Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp Leu Phe Phe Leu  
65 70 75 80

Leu Thr Val Pro Phe Trp Ala His Tyr Ala Ala Ala Gln Trp Asp Phe  
85 90 95

Gly Asn Thr Met Cys Gln Leu Leu Thr Gly Leu Tyr Phe Ile Gly Phe  
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Phe Ser Gly Ile Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu  
115 120 125

Ala Val Val His Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe  
130 135 140

Gly Val Val Thr Ser Val Ile Thr Trp Val Val Ala Val Phe Ala Ser  
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Thr Cys Ser Ser His Phe Pro Tyr  
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Leu Pro Pro Leu Tyr Ser Leu Val Phe Ile Phe Gly Phe Val Gly Asn  
 35 40 45

Met Leu Val Ile Leu Ile Leu Ile Asn Cys Lys Arg Leu Lys Ser Met  
 50 55 60

Thr Asp Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp Leu Phe Phe Leu  
 65 70 75 80

Leu Thr Val Pro Phe Trp Ala His Tyr Ala Ala Ala Gln Trp Asp Phe  
 85 90 95

Gly Asn Thr Met Cys Gln Leu Leu Thr Gly Leu Tyr Phe Ile Gly Phe  
 100 105 110

Phe Ser Gly Ile Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu  
 115 120 125

Ala Val Val His Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe  
 130 135 140

Gly Val Val Thr Ser Val Ile Thr Trp Val Val Ala Val Phe Ala Ser  
 145 150 155 160

Leu Pro Gly Ile Ile Phe Thr Arg Ser Gln Lys Glu Gly Leu His Tyr  
 165 170 175

Thr Cys Ser Ser His Phe Pro Tyr Ser Gln Tyr Gln Phe Trp Lys Asn  
 180 185 190

Phe Gln Thr Leu Lys Ile Val Ile Leu Gly Leu Val Leu Pro Leu Leu  
 195 200 205

Val Met Val Ile Cys Tyr Ser Gly Ile Leu Lys Thr Leu Leu Arg Cys  
 210 215 220

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Arg Asn Glu Lys Lys Arg His Arg Ala Val Arg Leu Ile Phe Thr Ile  
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Met Ile Val Tyr Phe Leu Phe Trp Ala Pro Tyr Asn Ile Val Leu Leu  
245 250 255

Leu Asn Thr Phe Gln Glu Phe Phe Gly Leu Asn Asn Cys Ser Ser Ser  
260 265 270

Asn Arg Leu Asp Gln Ala Met Gln Val Thr Glu Thr Leu Gly Met Thr  
275 280 285

His Cys Cys Ile Asn Pro Ile Ile Tyr Ala Phe Val Gly Glu Lys Phe  
290 295 300

Arg Asn Tyr Leu Leu Val Phe Phe Gln Lys His Ile Ala Lys Arg Phe  
305 310 315 320

Cys Lys Cys Cys Ser Ile Phe Gln Gln Glu Ala Pro Glu Arg Ala Ser  
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Ser Val Tyr Thr Arg Ser Thr Gly Glu Gln Glu Ile Ser Val Gly Leu  
340 345 350

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20 25 30

Leu Pro Pro Leu Tyr Ser Leu Val Phe Ile Phe Gly Phe Val Gly Asn  
35 40 45

Met Leu Val Ile Leu Ile Leu Ile Asn Cys Lys Arg Leu Lys Ser Met  
50 55 60

Thr Asp Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp Leu Phe Phe Leu  
65 70 75 80

Leu Thr Val Pro Phe Trp Ala His Tyr Ala Ala Ala Gln Trp Asp Phe  
85 90 95

Seq.ST25.txt

Gly Asn Thr Met Cys Gln Leu Leu Thr Gly Leu Tyr Phe Ile Gly Phe  
100 105 110

Phe Ser Gly Ile Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu  
115 120 125

Ala Val Val His Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe  
130 135 140

Gly Val Val Thr Ser Val Ile Thr Trp Val Val Ala Val Phe Ala Ser  
145 150 155 160

Leu Pro Gly Ile Ile Phe Thr Arg Ser Gln Lys Glu Gly Leu His Tyr  
165 170 175

Thr Cys Ser Ser His Phe Pro Tyr Ile Lys Asp Ser His Leu Gly Ala  
180 185 190

Gly Pro Ala Ala Ala Cys His Gly His Leu Leu Leu Gly Asn Pro Lys  
195 200 205

Asn Ser Ala Ser Val Ser Lys  
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His Lys Phe Asp Val Lys Gln Ile Gly Ala Gln Leu Leu Pro Pro Leu  
35 40 45

Tyr Ser Leu Val Phe Ile Phe Gly Phe Val Gly Asn Met Leu Val Val  
50 55 60

Leu Ile Leu Ile Asn Cys Lys Lys Leu Lys Cys Leu Thr Asp Ile Tyr  
Page 7

65

70

80

Leu Leu Asn Leu Ala Ile Ser Asp Leu Leu Phe Ile Ile Thr Leu Pro  
85 90 95

Leu Trp Ala His Ser Ala Ala Asn Glu Trp Val Phe Gly Asn Ala Met  
100 105 110

Cys Lys Leu Phe Thr Gly Leu Tyr His Ile Gly Tyr Phe Gly Gly Ile  
115 120 125

Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile Val His  
130 135 140

Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe Gly Val Val Thr  
145 150 155 160

Ser Val Ile Thr Trp Leu Val Ala Val Phe Ala Ser Val Pro Gly Ile  
165 170 175

Ile Phe Thr Lys Cys Gln Lys Glu Asp Ser Val Tyr Val Cys Gly Pro  
180 185 190

Tyr Phe Pro Arg Gly Trp Asn Asn Phe His Thr Ile Met Arg Asn Ile  
195 200 205

Leu Gly Leu Val Leu Pro Leu Leu Ile Met Val Ile Cys Tyr Ser Gly  
210 215 220

Ile Leu Lys Thr Leu Leu Arg Cys Arg Asn Glu Lys Lys Arg His Arg  
225 230 235 240

Ala Val Arg Val Ile Phe Thr Ile Met Ile Val Tyr Phe Leu Phe Trp  
245 250 255

Thr Pro Tyr Asn Ile Val Ile Leu Leu Asn Thr Phe Gln Glu Phe Phe  
260 265 270

Gly Leu Ser Asn Cys Glu Ser Thr Ser Gln Leu Asp Gln Ala Ile Gln  
275 280 285

Val Thr Glu Thr Leu Gly Met Thr His Cys Cys Ile Asn Pro Ile Ile  
290 295 300

Tyr Ala Phe Val Gly Glu Lys Phe Arg Arg Tyr Ile Ser Val Phe Phe  
305 310 315 320



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 Arg Lys His Ile Xaa Xaa Xaa Phe Cys Lys Gln Cys Pro Val Phe Tyr  
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Met Ala Gln Phe Val Pro Pro Leu Tyr Ser Leu Val Phe Thr Val Gly  
                   35                  40                  45

Leu Ile Gly Asn Val Val Val Val Met Ile Leu Ile Lys Tyr Arg Arg  
                   50                  55                  60

Ile Arg Ile Met Thr Asn Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp  
 65                  70                  75                  80

Leu Leu Phe Ile Val Thr Leu Pro Phe Trp Thr His Tyr Val Arg Gly  
                   85                  90                  95

His Asn Trp Val Phe Gly His Gly Met Cys Asn Leu Ile Ser Gly Phe  
                   100                  105                  110

Tyr His Thr Gly Leu Tyr Ser Glu Ile Phe Phe Ile Ile Leu Leu Thr  
                   115                  120                  125

Seq.ST25.txt

Ile Asp Arg Tyr Leu Ala Ile val His Ala Val Phe Ala Ile Arg Ala  
130 135 140

Arg Thr Val Thr Phe Gly Val Ile Thr Ser Ile Val Thr Trp Gly Ile  
145 150 155 160

Ala Val Ile Ala Ala Leu Pro Glu Phe Ile Phe Tyr Glu Thr Glu Glu  
165 170 175

Leu Phe Glu Glu Thr Ile Cys Ser Ala Leu Tyr Pro Glu Asp Thr Val  
180 185 190

Tyr Ser Trp Arg His Phe His Thr Ile Arg Met Thr Ile Phe Cys Leu  
195 200 205

Val Leu Pro Leu Leu Val Met Ala Ile Cys Tyr Thr Gly Ile Ile Lys  
210 215 220

Thr Leu Leu Arg Cys Pro Xaa Xaa Xaa Lys Tyr Lys Ala Ile Arg Leu  
225 230 235 240

Ile Phe Val Ile Met Ala Val Phe Phe Ile Glu Trp Thr Pro Tyr Asn  
245 250 255

Val Ala Ile Leu Ile Ser Ser Tyr Gln Ser Leu Leu Phe Gly Asn Asn  
260 265 270

Cys Glu Arg Ser Lys His Leu Asp Leu Val Met Ile Val Thr Glu Val  
275 280 285

Ile Ala Tyr Ser His Cys Cys Met Asn Glu Val Ile Tyr Ala Phe Val  
290 295 300

Gly Glu Arg Phe Arg Lys Tyr Ile Arg His Phe Phe His Arg His Leu  
305 310 315 320

Leu Met His Leu Gly Arg Tyr Ile Pro Phe Leu Pro Xaa Xaa Xaa Ile  
325 330 335

Glu Arg Ile Ser Ser Val Ser Pro Ser Thr Ala Glu Pro Glu Ile Ser  
340 345 350

Ile Val Phe  
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## Seq.ST25.txt

&lt;213&gt; Homo sapiens

&lt;400&gt; 9

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Asp Tyr Gly Asp Ala Thr Pro Cys Gln Lys Val Asn Glu Arg Ala Phe
20          25          30

Gly Ala Gln Leu Leu Pro Pro Leu Tyr Ser Leu Val Phe Val Ile Gly
35          40          45

Leu Val Gly Asn Ile Leu Val Val Leu Val Leu Val Gln Tyr Lys Arg
50          55          60

Leu Lys Asn Met Thr Ser Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp
65          70          75          80

Leu Leu Phe Ile Phe Thr Leu Pro Phe Trp Ile Asp Tyr Lys Leu Lys
85          90          95

Asp Asp Trp Val Phe Gly Asp Ala Met Cys Lys Ile Ile Ser Gly Phe
100         105         110

Tyr Tyr Thr Gly Leu Tyr Ser Glu Ile Phe Phe Ile Ile Leu Leu Thr
115         120         125

Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val Phe Ala Ile Arg Ala
130         135         140

Arg Thr Val Thr Phe Gly Val Ile Thr Ser Ile Ile Ile Trp Ala Ile
145         150         155         160

Ala Ile Ile Ala Ser Met Pro Gly Leu Tyr Phe Ser Lys Thr Gln Trp
165         170         175

Glu Phe Thr His His Thr Cys Ser Leu His Phe Pro His Glu Ser Leu
180         185         190

Arg Glu Trp Lys Leu Phe Gln Ala Leu Lys Leu Asn Leu Phe Gly Leu
195         200         205

Val Leu Pro Leu Leu Val Met Ile Ile Cys Tyr Ile Gly Ile Ile Lys
210         215         220

Ile Leu Leu Arg Arg Pro Asn Glu Lys Lys Ser Lys Ala Val Arg Leu
225         230         235         240

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Seq.ST25.txt

Ile Phe Val Ile Met Ile Ile Phe Phe Leu Phe Trp Ile Pro Tyr Asn  
245 250 255

Leu Thr Ile Ile Ile Ser Val Phe Gln Asp Phe Leu Phe Thr His Glu  
260 265 270

Cys Glu Gln Ser Arg His Leu Asp Leu Ala Val Gln Val Thr Glu Val  
275 280 285

Ile Ala Tyr Thr His Cys Cys Val Asn Glu Val Ile Tyr Ala Phe Val  
290 295 300

Gly Glu Arg Phe Arg Lys Tyr Ile Arg Gln Leu Glu His Arg Arg Val  
305 310 315 320

Ala Val His Leu Val Lys Trp Leu Pro Phe Leu Ser Val Asp Arg Ile  
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Glu Arg Val Ser Ser Thr Ser Pro Ser Thr Gly Glu His Glu Ile Ser  
340 345 350

Ala Gly Phe  
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Gly Ile Lys Ala Phe Gly Glu Leu Phe Leu Pro Pro Leu Tyr Ser Leu  
35 40 45

## Seq.ST25.txt

val Glu val Phe Gly Leu Ile Gly Asn Ser Val Val Val Leu val Leu  
 50 55 60  
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 65 70 75 80  
 Leu Ala Ile Ser Asp Leu Leu Phe Val Phe Ser Leu Pro Phe Trp Gly  
 85 90 95  
 Tyr Tyr Ala Ala Asp Gln Trp Val Phe Gly Leu Gly Ile Cys Lys Met  
 100 105 110  
 Ile Ser Trp Met Tyr Leu val Gly Phe Tyr Ser Gly Ile Phe Phe val  
 115 120 125  
 Met Ile Met Ser Ile Asp Arg Tyr Leu Ala Ile val His Ala val Glu  
 130 135 140  
 xaa xaa xaa Ala Arg Thr Ile Ile Tyr Gly val Ile Thr Ser Leu Ala  
 145 150 155 160  
 Thr Trp Ser val Ala val Phe Ala Ser Leu Pro Gly Phe Ile Phe Ser  
 165 170 175  
 Thr Cys Tyr Thr Glu Arg Asn His Thr Tyr Cys Lys Thr Lys Tyr Ser  
 180 185 190  
 Leu Asn Ser Thr Thr Trp Lys val Leu Ser Ser Leu Glu Ile Asn Ile  
 195 200 205  
 Leu Gly Leu val Ile Pro Leu Gly Ile Met Leu Phe Cys Tyr Ser Met  
 210 215 220  
 Ile Ile Arg Thr Leu Gln His Cys Lys Asn Glu Lys Lys Asn Lys Ala  
 225 230 235 240  
 val Lys Met Ile Phe Ala val val val Leu Phe Leu Gly Phe Trp Thr  
 245 250 255  
 Pro Tyr Asn Ile val Leu Phe Leu Glu Thr Leu val Glu Leu Glu val  
 260 265 270  
 Ile Gln Asp Cys Thr Phe Glu Arg Tyr Leu Asp Tyr Ala Ile Gln Ala  
 275 280 285  
 Thr Glu Thr Leu Ala Phe val His Cys Cys Leu Asn Pro Ile Ile Tyr  
 290 295 300

Seq.ST25.txt

Phe Phe Leu Gly Glu Lys Phe Arg Lys Tyr Ile Ile Gln Leu Phe Lys  
305 310 315 320

Xaa Xaa Xaa Gly Leu Phe Val Ile Cys Gln Tyr Cys Gly Leu Leu Gln  
325 330 335

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340 345 350

Asp His Asp Leu His Asp Ala Leu  
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Phe Pro Tyr Ser Gln Tyr Gln Phe Trp Lys Asn Phe Gln Thr Leu Lys  
1 5 10 15

Ile Val Ile Leu Gly Leu Val Leu Pro Leu Leu Val Met Val Ile Cys  
20 25 30

Tyr Ser Gly Ile Leu Lys Thr Leu Leu Arg Cys Arg Asn Glu Lys Lys  
35 40 45

Arg

<210> 12  
<211> 147  
<212> DNA  
<213> Homo sapiens

<400> 12

ttccatata gtcagtatca attctggaag aatttccaga cattaaagat agtcatcttg 60

gggctgggtcc tgccgctgct tgtcatgggc atctgctact cggaatcct aaaaactctg 120

cttcggtgct gaaatgagaa gaagagg 147

<210> 13  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 13

Phe Pro Tyr Ile Lys Asp Ser His Leu Gly Ala Gly Pro Ala Ala Ala  
1 5 10 15

# Seq.ST25.txt

Cys His Gly His Leu Leu Leu Gly Asn Pro Lys Asn Ser Ala Ser Val  
 20 25 30

Ser Lys

<210> 14  
 <211> 27  
 <212> DNA  
 <213> ARTIFICIAL SEQUENCE

<220>  
 <221> primer\_bind  
 <222> (1)..(27)  
 <223> Primer used to amplify the full size coding region of the CCR5 gene

<400> 14  
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<210> 15  
 <211> 27  
 <212> DNA  
 <213> ARTIFICIAL SEQUENCE

<220>  
 <221> primer\_bind  
 <222> (1)..(27)  
 <223> Primer to amplify the full size coding region of the CCR5 gene

<400> 15  
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<210> 16  
 <211> 20  
 <212> DNA  
 <213> ARTIFICIAL SEQUENCE

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 <223> Primer used to amplify CCR5 from genomic DNA samples

<400> 16  
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<210> 17  
 <211> 27  
 <212> DNA  
 <213> ARTIFICIAL SEQUENCE

<220>  
 <221> primer\_bind

## Seq.ST25.txt

&lt;222&gt; (1)..(27)

&lt;223&gt; primer used to amplify CCR5 from genomic DNA samples

&lt;400&gt; 17

ctgatctaga gccatgtgca caactct

27

&lt;210&gt; 18

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 18

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asp | Tyr | Gln | Val | Ser | Ser | Pro | Ile | Tyr | Asp | Ile | Asn | Tyr | Tyr | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Glu | Pro | Cys | Gln | Lys | Ile | Asn | Val | Lys | Gln | Ile | Ala | Ala | Arg | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Pro | Pro | Leu | Tyr | Ser | Leu | Val | Phe | Ile | Phe | Gly | Phe | Val | Gly | Asn |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Val | Ile | Leu | Ile | Leu | Ile | Asn | Cys | Lys | Arg | Leu | Lys | Ser | Met |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Asp | Ile | Tyr | Leu | Leu | Asn | Leu | Ala | Ile | Ser | Asp | Leu | Phe | Phe | Leu |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     |     | 80  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Val | Pro | Phe | Trp | Ala | His | Tyr | Ala | Ala | Ala | Gln | Trp | Asp | Phe |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asn | Thr | Met | Cys | Gln | Leu | Leu | Thr | Gly | Leu | Tyr | Phe | Ile | Gly | Phe |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ser | Gly | Ile | Phe | Phe | Ile | Ile | Leu | Leu | Thr | Ile | Asp | Arg | Tyr | Leu |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Val | His | Ala | Val | Phe | Ala | Leu | Lys | Ala | Arg | Thr | Val | Thr | Phe |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Val | Thr | Ser | Val | Ile | Thr | Trp | Val | Val | Ala | Val | Phe | Ala | Ser |
| 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     |     |     | 160 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Pro | Gly | Ile | Ile | Phe | Thr | Arg | Ser | Gln | Lys | Glu | Gly | Leu | His | Tyr |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Cys | Ser | Ser | His | Phe | Pro | Tyr | Ile | Lys | Asp | Ser | His | Leu | Gly | Ala |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |



Seq.ST25.txt  
Gly Pro Ala Ala Ala Cys His Gly His Leu Leu Leu Gly Asn Pro Lys  
195 200 205

Asn Ser Ala Ser Val Ser Lys  
210 215